

Trade name: Pre-Gold Bath JE285 - 3 g/L Au

Substance number: 271.1000:

Version: 2 / WORLD

Date revised: 22.10.2025

Replaces Version: 1 / WORLD

Print date: 27.02.2026

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Pre-Gold Bath JE285 - 3 g/L Au

UFI: AKH0-V017-200N-GSGR

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

Galvanic Bath, do not use for private purposes, food, beverages, or animal feed.

#### **Identified Uses**

PC14

Metal surface treatment products, including galvanic and electroplating products

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Jentner Plating Technology GmbH

Johann-Staib-Straße 2

75179 Pforzheim, DE

Telephone no. +49 (0) 7231 4180940

Information provided by / telephone Laboratory department; Opening hours 8:00-16:00

E-mail address of person responsible sales@jentner.de

for this SDS

### **1.4. Emergency telephone number**

Emergency: +44 1865 407333 Transport code: JENTNERPLATINGTECH-29003

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H311
Skin Corr. 1	H314
Eye Dam. 1	H318
Carc. 1B	H350i
Repr. 1B	H360F
Aquatic Chronic 3	H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

## Safety data sheet in accordance with regulation (EC) No 1907/2006

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### Hazard pictograms \*\*\*



### Signal word

Danger

### Hazard statements \*\*\*

H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H350i May cause cancer by inhalation.  
H360F May damage fertility.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements \*\*\*

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor.  
P501.9 Dispose of contents/container as problematic waste.

### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains \*\*\* potassium-III-cyanid ; Cobalt sulphate, heptahydrate; Sulphuric acid p.A

EUH208 Contains Cobalt sulphate, heptahydrate, potassium-III-cyanid , May produce an allergic reaction.

### Supplemental information

#### Further supplemental information

Restricted to professional users

### 2.3. Other hazards

Harmful in contact with skin and if swallowed.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients \*\*\*

### Hazardous ingredients \*\*\*

#### Sulphuric acid p.A

CAS No.	7664-93-9				
EINECS no.	231-639-5				
Registration no.	01-2119458838-20				
Concentration	>=	1	<	3	%

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Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1	H318
Skin Corr. 1A	H314
Met. Corr. 1	H290

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 5 < 15 %
Skin Corr. 1A	H314	>= 15 %
Skin Irrit. 2	H315	>= 5 < 15 %

ATE oral 2,14 mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

**potassium-III-cyanid**

CAS No. 14263-59-3

EINECS no. 238-145-9

Concentration >= 0,49 < 0,71 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2	H300
Acute Tox. 2	H330
Acute Tox. 1	H310
STOT RE 2	H373
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Skin Irrit. 2	H315
Skin Sens. 1	H317

ATE oral 5 mg/kg

ATE dermal 5 mg/kg

cATpE inhalative, Dust/Mist 0,05 mg/l

**Cobalt sulphate, heptahydrate**

CAS No. 10026-24-1

EINECS no. 233-334-2

Concentration >= 0,3 < 1 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Resp. Sens. 1	H334
Skin Sens. 1	H317
Muta. 2	H341
Carc. 1B	H350i
Repr. 1B	H360F
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Concentration limits (Regulation (EC) No. 1272/2008)

Carc. 1B H350i >= 0,01 %

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### **SECTION 4: First aid measures**

#### **4.1. Description of first aid measures**

##### **General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

##### **After inhalation**

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

##### **After skin contact**

Wash off immediately with soap and water. Seek medical advice immediately.

##### **After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

##### **After ingestion**

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

##### **Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

#### **4.2. Most important symptoms and effects, both acute and delayed**

Until now no symptoms known so far.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

##### **Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Dry powder

##### **Non suitable extinguishing media**

Full water jet

#### **5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

##### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues

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and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### **6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

#### **Hints on storage assembly**

Do not store together with foodstuffs.

#### **Storage classes**

Storage class according to TRGS 510      6.1B

Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances

#### **Further information on storage conditions**

Keep under lock and key or accessible only to specialists or people who are authorized.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

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**Other information**

Contains no substances with occupational exposure limit values.

**Derived No/Minimal Effect Levels (DNEL/DMEL)**

**Cobalt sulphate, heptahydrate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	= 0,105	mg/m <sup>3</sup>

**Sulphuric acid p.A**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Human	
Route of exposure	inhalative	
Mode of action	Chronic effects	
Concentration	0,05	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Human	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	0,1	mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

**Cobalt sulphate, heptahydrate**

Type of value	PNEC	
Type	Water	
Concentration	= 500	mg/m <sup>3</sup>

Type of value	PNEC	
Type	Saltwater	
Concentration	= 2400	mg/m <sup>3</sup>

Type of value	PNEC	
Type	Sediment	
Concentration	= 11000	mg/m <sup>3</sup>

Type of value	PNEC	
Type	Marine sediment	
Concentration	= 9500	mg/m <sup>3</sup>

Type of value	PNEC	
Type	Soil	
Concentration	= 7900	mg/m <sup>3</sup>

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Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	= 400	mg/m <sup>3</sup>

**Sulphuric acid p.A**

Type of value	PNEC	
Type	Freshwater	
Conditions	Short term	
Concentration	0,003	mg/l

Type of value	PNEC	
Type	Saltwater	
Conditions	Short term	
Concentration	0	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Conditions	Short term	
Concentration	8,8	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Conditions	Short term	
Concentration	0,002	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Conditions	Short term	
Concentration	0,002	mg/kg

**8.2. Exposure controls**

**General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Chemical resistant gloves  
 Appropriate Material neoprene

**Eye protection**

Safety glasses with side protection shield; Face shield

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### Body protection

Clothing as usual in the chemical industry. Protective shoes

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Colour</b>	pink
<b>Odour</b>	odourless
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Boiling point or initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flammability</b>	
evaluation	not determined
<b>Upper and lower explosive limits</b>	
Remarks	not determined
<b>Flash point</b>	
Remarks	Not applicable
<b>Auto-ignition temperature</b>	
Remarks	not determined
<b>Decomposition temperature</b>	
Remarks	not determined
<b>pH value</b>	
Value	< 1
<b>Viscosity</b>	
Remarks	not determined
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient n-octanol/water (log value)</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Density and/or relative density</b>	
Remarks	not determined
<b>Relative vapour density</b>	
Remarks	not determined

### 9.2. Other information

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**Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No hazardous reactions known.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

Toxic gases/vapours, Irritant gases/vapours

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute oral toxicity**

ATE 81,193 mg/kg

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)**

**Cobalt sulphate, heptahydrate**

Species rat

LD50 = 582 mg/kg

**potassium-III-cyanid**

Species rat

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LD50 = 5 mg/kg

**Sulphuric acid p.A**

Species rat

LD50 2,140 mg/kg

**Acute dermal toxicity**

ATE 911,4391 mg/kg

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute dermal toxicity (Components)****potassium-III-cyanid**

Species guinea pig

LD50 = 5 mg/kg

**Acute inhalational toxicity**

ATE 9,1144 mg/l

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

**Acute inhalative toxicity (Components)****potassium-III-cyanid**

Species rat

LC50 = 0,05 mg/l

Duration of exposure 4 h

**Skin corrosion/irritation**

evaluation corrosive

Remarks The classification criteria are met.

**Skin corrosion/irritation (Components)****Sulphuric acid p.A**

evaluation strongly corrosive

**Serious eye damage/irritation**

evaluation corrosive

Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)****Sulphuric acid p.A**

Remarks Risk of serious damage to eyes.

**Sensitization**

Remarks Based on available data, the classification criteria are not met.

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**



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evaluation May damage fertility.  
Remarks The classification criteria are met.

**Carcinogenicity**

evaluation May cause cancer by inhalation.  
Remarks The classification criteria are met.

**Specific Target Organ Toxicity (STOT)**

**Single exposure**

Remarks Based on available data, the classification criteria are not met.

**Repeated exposure**

Remarks Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**General information**

not determined

**Daphnia toxicity (Components)**

**Sulphuric acid p.A**

EC50	>	100		mg/l
Duration of exposure		48	h	

**Algae toxicity (Components)**

**Sulphuric acid p.A**

Species	Algae			
ErC50	>	100		mg/l
Duration of exposure		72	h	

**12.2. Persistence and degradability**

**General information**

not determined

**12.3. Bioaccumulative potential**

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### General information

not determined

### Partition coefficient n-octanol/water (log value)

Remarks not determined

## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### General information

not determined

### Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

## 12.6 Endocrine disrupting properties

### Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

### General information

not determined

### General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information \*\*\*

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	2922	2922	2922
14.2. UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S., (Sulphuric acid p.A,	CORROSIVE LIQUID, TOXIC, N.O.S., (Sulphuric acid p.A,	CORROSIVE LIQUID, TOXIC, N.O.S., (Sulphuric acid p.A,

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	potassium-III-cyanid )	potassium-III-cyanid )	potassium-III-cyanid )
<b>14.3. Transport hazard class(es)</b>	8	8	8
Subsidiary risk	6.1	6.1	6.1
Label			
<b>14.4. Packing group</b>	II	II	II
Limited Quantity	1 l	1 l	0.5 L
Transport category	2		
<b>14.5. Environmental hazards</b>	-		
Tunnel restriction code	E		

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Other information**

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of  $\geq 0.1\%$  w/w.

### **15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

### **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H311	Calculation method
Skin Corr. 1	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Carc. 1B	H350i	Calculation method
Repr. 1B	H360F	Calculation method
Aquatic Chronic 3	H412	Calculation method

### **Hazard statements listed in Chapter 2/3**

H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.

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H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H360F	May damage fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 2/3

Acute Tox. 1	Acute toxicity, Category 1
Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Corr. 1	Skin corrosion, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.